

CONTENTS

(Abstracts/contents lists published in: *Chem. Abstr.*; *Curr. Contents*; *Phys. Chem. Earth Sci.*; *Life Sci.* Full texts are incorporated in CJELSEVIER, a file in the Chemical Journals Online database which is available on STN® International.)

Characterisation of the glycosidic linkage by infrared and Raman spectroscopy in the C-H stretching region: α,α -trehalose and α,α -trehalose-2,3,4,6,6-d ₁₀ S. Abbate (Palermo, Italy), G. Conti (Novara, Italy), and A. Naggi (Milano, Italy)	1
Nuclear Overhauser effects and the flexibility of saccharides: methyl β -xylobioside M. Hricovini, I. Tvaroška, J. Hirsch (Bratislava, Czechoslovakia), and A. J. Duben (Cape Girardeau, MO, U.S.A.)	13
Deoxygenated and alkylated furanoses: Thorpe-Ingold effects on tautomeric equilibria and rates of anomerization J. R. Snyder and A. S. Serianni (Notre Dame, IN, U.S.A.)	21
Vibrational Raman optical activity of carbohydrates L. D. Barron, A. R. Gargaro, and Z. Q. Wen (Glasgow, Gt. Britain)	39
D-Penturonic acids: solution studies of stable-isotopically enriched compounds by ¹ H- and ¹³ C-n.m.r. spectroscopy J. Wu and A. S. Serianni (Notre Dame, IN, U.S.A.)	51
The structure of bergenin W. Frick, J. Hofmann, H. Fischer, and R. R. Schmidt (Konstanz, F.R.G.)	71
A study of starch gelatinization using differential scanning calorimetry, X-ray, and birefringence measurements H. Liu, J. Lelievre, and W. Ayoun-Chee (Wolfville, N.S., Canada)	79
Hydrogen bonding in the crystal structure of the tetrasaccharide stachyose hydrate: a 1:1 complex of two conformers G. A. Jeffrey and D.-B. Huang (Pittsburg, PA, U.S.A.)	89
Synthesis of several optically active O-methyl-inosamines and -inosadiazines from L-quebrachitol S. Ogawa and A. Isaka (Yokohama, Japan)	105
Reaction of 2-amino-2-deoxy-D-glucose with aryl and acyl isothiocyanates, and aryl isocyanates: structure of the intermediate products J. Fernández-Bolaños Guzmán, S. G. Rodríguez, J. Fernández-Bolaños, M ^a . J. Diáñez, and A. López-Castro (Seville, Spain)	125
Use of N-acetylglucosaminyltransferases I and II in the preparative synthesis of oligosaccharides K. J. Kaur, G. Alton, and O. Hindsgaul (Edmonton, Alta., Canada)	145
Transformation of aldoses into glycosylamine 1,2-(cyclic carbamates) (glyco-oxazolidin-2-ones) by reaction with potassium cyanate J. Kovács, I. Pintér (Budapest, Hungary), U. Lendering, and P. Köll (Oldenburg, F.R.G.)	155
Stereoselective synthesis of pyrazoline derivatives by 1,3-dipolar cycloaddition of diazoalkanes to α,β -unsaturated carbonyl derivatives of sugars M. Mancera, E. Rodríguez, I. Roffé, and J. A. Galbis (Seville, Spain)	167

1-Methyl(or phenyl)-5-(penta- <i>O</i> -acetyl- <i>D</i> -galacto-pentitol-1-yl)pyrazoles from the reactions of 3,4,5,6,7-penta- <i>O</i> -acetyl-1,2-dideoxy-1-nitro- <i>D</i> -galacto-hept-1-enitol with aldehyde methyl (or phenyl)hydrazones M. Gómez-Guillén and J. M. Lassaletta Simon (Seville, Spain)	175
Partial purification of esterases from rabbit serum and their use in regioselective deacylations of sugars S. Tomić, A. Treščec, Đ. Ljevaković, and J. Tomašić (Zagreb, Yugoslavia)	191
Synthesis and n.m.r. analysis of branched trisaccharide and pentasaccharide haptens of the β -hemolytic Streptococci Group A and the preparation of synthetic antigens B. M. Pinto, K. B. Reimer, and A. Tixidre (Burnaby, B.C., Canada)	199
Synthesis of 3'-deoxy-3'-fluorokanamycin A and 3',4'-dideoxy-3'-fluorokanamycin A Y. Takahashi, T. Tsuchiya, S. Umezawa, and H. Umezawa (Kawasaki, Japan)	221
Synthesis of the methyl 3-amino-3-deoxy- α - and β - <i>D</i> -allopyranosides and -allofuranosides H. H. Baer and Y. Gan (Ottawa, Ont., Canada)	233
Structure of the type-specific polysaccharide antigen of <i>Streptococcus rattus</i> D. G. Pritchard, B. P. Renner, N. R. Krishna, and D.-H. Huang (Birmingham, AL, U.S.A.)	247
Structural studies of the extracellular polysaccharide elaborated by <i>Azotobacter vinelandii</i> strain 1484 F. Ferreira, L. Kenne, B. Lindberg (Stockholm, Sweden), and W. Nimmich (Rostock, F.R.G.)	255
Structural features of the cell-wall polysaccharides of <i>Asparagus officinalis</i> seeds R. Goldberg, L. Gillou, R. Prat, C. Herve Du Penhoat, and V. Michon (Paris, France)	263
Chemical methods for the analysis of sulphated galactans from red algae T. T. Stevenson and R. H. Furneaux (Petone, New Zealand)	277
Sulfation of some chemically-modified heparins. Formation of a 3-sulfate analog of heparin R. N. Rej, K. G. Ludwig-Baxter, and A. S. Perlin (Montreal, Canada)	299
<i>Notes</i>	
A improved method for the preparation of standards for glycosyl-linkage analysis of complex carbohydrates S. H. Doares, P. Albersheim, and A. G. Darvill (Athens, GA, U.S.A.)	311
Convenient synthesis of 2,3,5-tri- <i>O</i> -benzyl-arabino- and -ribofuranoses via their allyl glycosides P. Finch, G. M. Iskander, and A. H. Siriwardena (Egham, Gt. Britain)	319
Stereoselective synthesis of nitropyrazolines: 1,3-dipolar cycloaddition of diazoalkanes to (<i>E</i>)-4,5,6,7,8-penta- <i>O</i> -acetyl-1,2,3-trideoxy-2- <i>C</i> -nitro- <i>D</i> -manno-oct-2-enitol M. Mancera, E. Rodriguez, I. Roffé, J. A. Galbis, C. F. Conde, and A. Conde (Seville, Spain)	327
A short synthesis of 1,3,4,6-tetra- <i>O</i> -acetyl-2-azido-2-deoxy- β - <i>D</i> -glucopyranose and the corresponding α -glucosyl chloride from <i>D</i> -mannose V. Pavliak and P. Kováč (Bethesda, MD, U.S.A.)	333
Structural analyses of a second acidic exopolysaccharide of <i>Rhizobium meliloti</i> that can function in alfalfa root nodule invasion S. B. Levery, H. Zahn, C. C. Lee, J. A. Leigh, and S. Hakomori (Seattle, WA, U.S.A.)	339

Structure of some sulfated sugars isolated after acid hydrolysis of the extracellular polysaccharide of <i>Porphyridium sp.</i> , a unicellular red alga N. Lupescu, S. (Malis) Arad, S. Geresh (Beersheva, Israel), M. A. Bernstein (Pointe Claire-Dorval, Que., Canada), and R. Glaser (Beersheva, Israel)	349
<i>Erratum</i>	c1
<i>Announcement</i>	c3
<i>Author index</i>	c5
<i>Subject index</i>	c7